

0000008

3/26/90

137853

BRAO.

THESE ARE THE LAB SAMPLES
THAT E.M.S. LAB RAN OF THE SPLIT SAMPLES.
I THOUGHT YOU MIGHT LIKE TO HAVE
A LOOK AT THEM.

E.

SAMPLING MAP OF 2-7-90 BY BRAD BRADLEY (US-EPA) E. MEYERS (EDI)
KURT NEIBERGAUL (IEPA) AND STEVE DAVIS (IEPA) SAM JUNG (C.R.A.)
MANVILLE

JOHNS-MANVILLE DISPOSAL AREA
WAUKEGAN, ILLINOIS

FIGURE E-1

MONITORING WELL LOCATION MAP

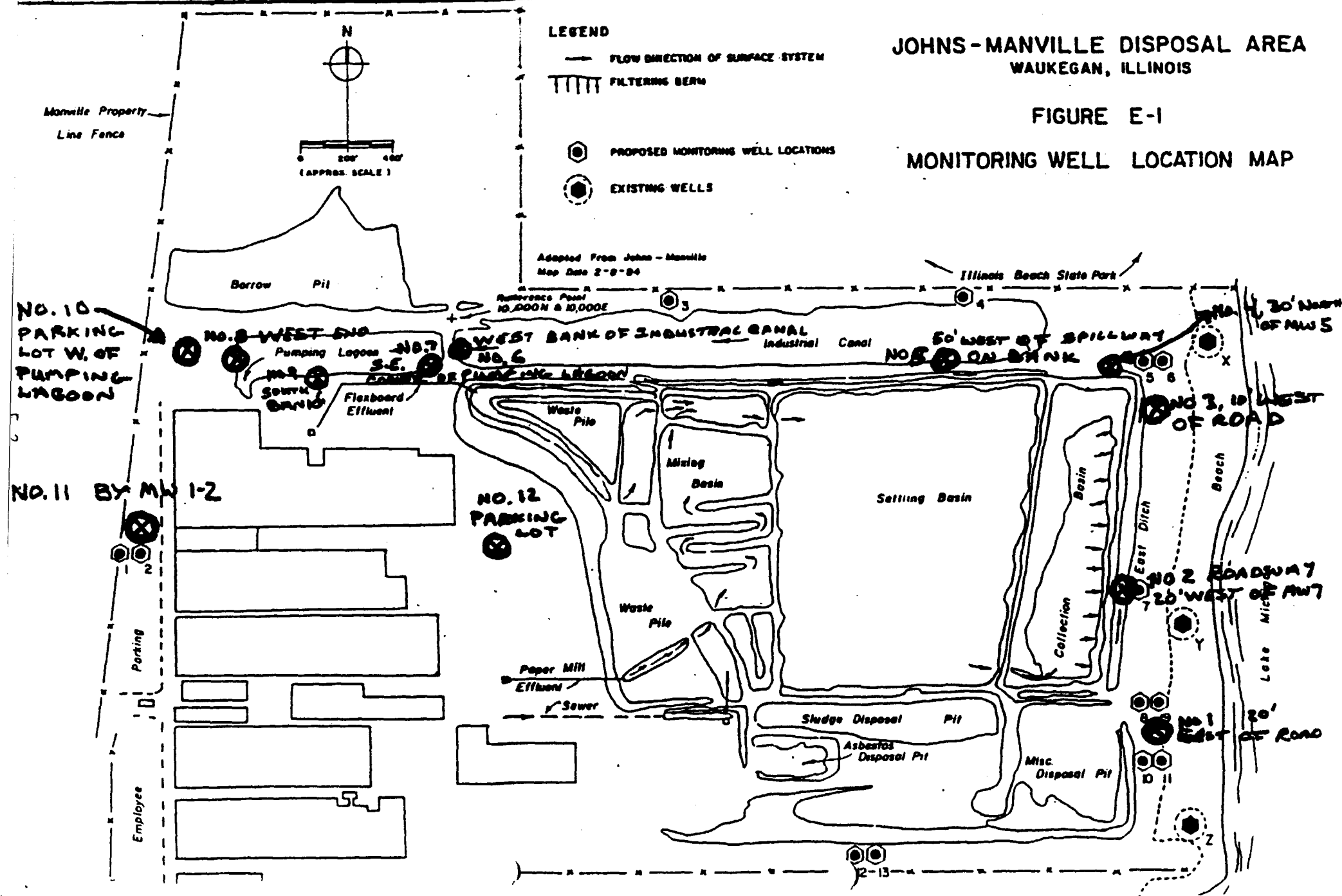


TABLE 1
MANVILLE WAUKEGAN PLANT FACILITY SAMPLING KEY

<i>Date</i>	<i>CRA Sample Number</i>	<i>USEPA/IEPA Sample Number</i>	<i>Sample Location</i>	<i>Sample Description</i>
2-7-90	S2980-020790-SJ-017	1	20' E of East Road, 40' S of MW-9	AC Pipe, tar paper, white powder
2-7-90	S2980-020790-SJ-018	2	20' W of MW-7A, on East Road	white powder, sludge
2-7-90	S2980-020790-SJ-019	3	10' W of E Road, 150' S of MW-5	AC pipe, tar paper
2-7-90	S2980-020790-SJ-020	4	30' N of MW-5, E edge of East Road	white powder, AC pipe, shingle tabs
2-7-90	S2980-020790-SJ-021		S Bank of Ind. Canal 50' W of concrete spillway	AC pipe, white powder/sludge
2-7-90	S2980-020790-SJ-022	6	W Bank of Ind. Canal-Composite	AC pipe, tar paper, misc.
2-7-90	S2980-020790-SJ-023	7	SE Corner Pumping Lagoon	white/grey cotton like powder
2-7-90	S2980-020790-SJ-024	9	S Bank Pumping Lagoon, 30' E of Pumphouse	AC pipe, tar paper
2-7-90	S2980-020790-SJ-025	8	W Bank of Pumping Lagoon-Composite	AC pipe, red board
2-7-90	S2980-020790-SJ-026	10**	Parking Area W of Pumping Lagoon	AC pipe, tar paper
2-7-90	S2980-020790-SJ-027	**	S Bank of borrow pit, N of sample 10	white/grey cotton like powder
2-7-90	S2980-020790-SJ-028	11	Area surrounding MW-1 and MW-2	AC pipe

TABLE 1 CONTINUED

<i>Date</i>	<i>CRA Sample Number</i>	<i>USEPA/IEPA Sample Number</i>	<i>Sample Location</i>	<i>Sample Description</i>
2-7-90	S2980-020790-SJ-029	12	W Parking Area, beneath asphalt & gravel subbase	yellow cloth, gravel, grey board
2-8-90	S2980-020890-SJ-030	NA	S road, 30' W of SE corner	brown sandy clay (wet)
2-8-90	S2980-020890-SJ-031	NA	S road, 100' E of MW-12	brown sandy clay (wet)
2-8-90	S2980-020890-SJ-032	NA	S road 200' W of RR Block	brown clay (wet)
2-8-90	S2980-020890-SJ-033	NA	S road, 100' W of RR track switch	brown sand and clay (wet)

* All locations are approximate

** EPA made composite of Parking Area and Borrow Pit

LABORATORY NO.: 17622
SAMPLE ID: 017
SIZE: Fine <0.5mm.

CLIENT: C.C. Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 212.8g

FRACTION
WEIGHT 139.9g

SAMPLE
APPEARANCE Grey granular
White fibrous

SAMPLE
APPEARANCE Grey granular
Black / white fibrous

SIZE
RANGE 5µm to 100µm

SIZE
RANGE 100µm to 14mm

ANALYSIS
DESCRIPTION Small bundles of
i. chrysotile were
MORPHOLOGY found in all 4
preps.

ANALYSIS
DESCRIPTION Large bundles of
i.e. chrysotile and crocidolite
MORPHOLOGY in all 4 preps.

ASBESTOS
PRESENT
TYPE & PERCENT Chrysotile 2%

ASBESTOS
PRESENT
TYPE & PERCENT Crocidolite 9%
Chrysotile 5%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 1%
Glasswool <1%
Synthetics <1%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose <1%
Synthetics <1%

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opakes, organics,
Mica (t)

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opakes, organics

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE 1. Chry. 3% 2. Chry. 1%
3. Chry. 2% 4. Chrys. 2%

PERCENT
ASBESTOS
PER SLIDE 1. Croc. 8% 2. Chry. 2%
Chry. 5% Croc. 12%
3. Croc. 7% 4. Croc. 10%
Chry. 6% Chry. 7%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622

CLIENT: CC Johnson & Malhotra

SAMPLE ID: 018

SIZE: Fine <0.5mm.

SIZE: Coarse >0.5mm.

FRACTION

WEIGHT 53.6g

FRACTION

WEIGHT 77.7g

SAMPLE
APPEARANCE

Grey granular

SAMPLE
APPEARANCE

Grey granular

SIZE

RANGE

5 - 15µm

SIZE

RANGE

5 - 50µm

ANALYSIS
DESCRIPTION

Crocidolite was
found in one prep

i.e.
MORPHOLOGY

ANALYSIS
DESCRIPTION

Chrysotile was seen in
one prep in association
with the tar

ASBESTOS
PRESENT

TYPE & PERCENT

Crocidolite <<1%

ASBESTOS
PRESENT

TYPE & PERCENT

Chrysotile <<1%

OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose <1%

OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose <1%

NON-FIBROUS
MATERIALS
PRESENT

Granular minerals
Opagues
Organics

NON-FIBROUS
MATERIALS
PRESENT

Granular minerals
Organics
Opagues
Organics (Tar) (t)

NO. OF
FIELDS VIEWED

100 fields per prep

NO. OF

FIELDS VIEWED

100 fields per prep

PERCENT
ASBESTOS
PER SLIDE

1. N.D. 2. Cro <1%
3. N.D. 4. N.D.

PERCENT
ASBESTOS
PER SLIDE

1. N.D. 2. Chry <1%
3. N.D. 4. N.D.

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622

SAMPLE ID: 019

SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra

SIZE: Coarse >0.5mm.

FRACTION

WEIGHT 125.2g

FRACTION

WEIGHT 286.4g

SAMPLE
APPEARANCEGrey granular
White fibrousSAMPLE
APPEARANCEGrey granular
White fibrousSIZE
RANGE

10 to 150µm

SIZE
RANGE

10 to 250µm

ANALYSIS
DESCRIPTIONChrysotile and
amosite were found
in all 4 of the
preps and crocidolite
was found in one
prepANALYSIS
DESCRIPTION

i.e.

Chrysotile and amosite
were found in all four
preps

MORPHOLOGY

MORPHOLOGY

ASBESTOS
PRESENT

TYPE & PERCENT

Chrysotile 5%

Amosite 1%

Crocidolite <<1%

ASBESTOS
PRESENT

TYPE & PERCENT

Chrysotile 14%

Amosite 2%

OTHER
FIBROUS
MATERIALS
PRESENTGlasswool <1%
Cellulose <1%
Synthetics <1%OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose <1%

NON-FIBROUS
MATERIALS
PRESENTGranular minerals
Opagues
OrganicsNON-FIBROUS
MATERIALS
PRESENTGranular minerals
Opagues
Organics
Mica

NO. OF

FIELDS VIEWED 100 fields per prep

NO. OF

FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE

1 Chry. 4%	2 Chry. 7%
1 Amo. 1%	2 Amo. <1%
Croc. <1%	
3 Chry. 3%	4 Chry. 5%
Amo. 2%	Amo. 3%
Croc. <1%	

PERCENT
ASBESTOS
PER SLIDE

1 Chry. 15%	2 Chry. 15%
1 Amo. 1%	2 Amo. 1%
3 Chry. 12%	4 Chry. 10%
Amo. 3%	Amo. 2%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 020
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 115.3g

FRACTION
WEIGHT 476.7g

SAMPLE
APPEARANCE Grey granular
White fibrous

SAMPLE
APPEARANCE Black / White
Fibrous

SIZE
RANGE 10µm to 500µm

SIZE
RANGE 100µm to 5mm

ANALYSIS
DESCRIPTION Large bundles of
chrysotile were
found in all four
i.e. preps
MORPHOLOGY

ANALYSIS
DESCRIPTION Large bundles of
chrysotile were
found in all four
i.e. preps
MORPHOLOGY

ASBESTOS
PRESENT Chrysotile 15%
TYPE & PERCENT Crocidolite <1%

ASBESTOS
PRESENT Chrysotile 26%
TYPE & PERCENT Crocidolite <1%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 3%
Stellate hairs <1%
Glasswool <1%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 1%

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opagues
Organics
Resin

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opagues
Organics
Resin

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE 1.Chry.20% Chry.18%
Croc.<1% Croc.<1%
3.Chry.15% Chry.8%
Croc.<1% Croc.<1%

PERCENT
ASBESTOS
PER SLIDE 1.Chry.20% Chry.25%
Croc.<1% Croc.<1%
3.Chry.35% Chry.25%
Croc.<1%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 021
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 92.2g

FRACTION
WEIGHT 301.1g

SAMPLE
APPEARANCE Grey granular
White fibrous

SAMPLE
APPEARANCE Grey granular
Grey fibrous

SIZE
RANGE 10 to 80µm

SIZE
RANGE 10 to 200µm

ANALYSIS
DESCRIPTION Chrysotile was
found in all 4
preps and amosite
was found in two
preps and croc-
idolite in 1 prep

ANALYSIS
DESCRIPTION Chrysotile and crocidolite
were found in all 4 preps
and amosite was found
in two preps
i.e.
MORPHOLOGY

ASBESTOS
PRESENT Chrysotile 5%
Crocidolite <1%
TYPE & PERCENT Amosite <1%

ASBESTOS
PRESENT Chrysotile 10%
Crocidolite 1+%
TYPE & PERCENT Amosite <1%

OTHER
FIBROUS
MATERIALS
PRESENT Glasswool 5%
Cellulose 1%

OTHER
FIBROUS
MATERIALS
PRESENT Glasswool 1%
Cellulose 1%

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Organics
Opagues
Mica (t)

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Organics
Opagues

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE Chry.4% 2. Chry.5%
Croc.<1% Croc.1%
Amo.<1%
3 Chry.3% 4. Chry.8%
Amo.<1% Amo.<1%

PERCENT
ASBESTOS
PER SLIDE Chry.15% 2. Chry.6%
Amo.1% Amo.<1%
Croc.<1% Croc.2%
3 Chry.8% 4. Chry.10%
Croc.1% Croc.3%
Amo.<1%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17662
SAMPLE ID: 022
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 31.6g

FRACTION
WEIGHT 318.6g

SAMPLE
APPEARANCE Grey granular

SAMPLE
APPEARANCE Grey massive & granular

SIZE
RANGE 5µm to 5mm

SIZE
RANGE 50µm to 10mm

ANALYSIS DESCRIPTION Small to large bundles of crocidolite & chrysotile were found in all four preps
MORPHOLOGY

ANALYSIS DESCRIPTION Large bundles of chrysotile and amosite were found in all four preps i.e.
MORPHOLOGY

ASBESTOS
PRESENT
TYPE & PERCENT Crocidolite 9%
Chrysotile 1%

ASBESTOS
PRESENT
TYPE & PERCENT Chrysotile 9%
Crocidolite 9%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 2%
Synthetics <1%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 1%

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Organics
Opagues

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opagues
Organics
Resin

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT ASBESTOS
PER SLIDE 1. Croc. 9% 2. Croc. 10%
Chry. 1% 3. Croc. 10% 4. Croc. 6%
Chry. 2% 5. Chry. 2%

PERCENT ASBESTOS
PER SLIDE 1. Chry. 15% 2. Chry. 8%
Croc. 5% 3. Chry. 10% 4. Chry. 5%
Croc. 8% 5. Croc. 12%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622

SAMPLE ID: 023

SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra

SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 212.0gFRACTION
WEIGHT 115.8gSAMPLE
APPEARANCE Beige granular
White fibrousSAMPLE
APPEARANCE Blue / White
fibrousSIZE
RANGE 10µm to 200µmSIZE
RANGE 100µm to 8mmANALYSIS
DESCRIPTION Large bundles of
chrysotile were
found in all four
preps. Small bundles
of crocidolite were
found in all four
preps
MORPHOLOGYANALYSIS
DESCRIPTION Large bundles of chrysotile
were found in all four preps.
Small bundles of crocidolite
were found in the four preps.
MORPHOLOGYASBESTOS
PRESENT Chrysotile 6%
TYPE & PERCENT Crocidolite <1%ASBESTOS
PRESENT Chrysotile 39%
TYPE & PERCENT Crocidolite 1%OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 4%
Glasswool 1%OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 2%NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Organics
Opagues
Resin (t)
Mica (t)NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Organics
Resin
OpaguesNO. OF
FIELDS VIEWED 100 fields per prepNO. OF
FIELDS VIEWED 100 fields per prepPERCENT
ASBESTOS 1.Chry.8% 2. Chry.3%
PER SLIDE 'Croc.1% 'Croc.<1%
3.Chry.6% 4. Chry.6%
Croc.<1% Croc.<1%PERCENT
ASBESTOS 1.Chry.25% 2. Chry.45%
PER SLIDE 'Croc.4% 'Croc. 1%
3.Chry.45% 4. Chry.40%
Croc.1% Croc.<1%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 024
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra

SIZE: Coarse >0.5mm.

FRACTION
WEIGHT

FRACTION
WEIGHT 88.2g

SAMPLE
APPEARANCE No fine fraction
was present in
this sample

SAMPLE
APPEARANCE Grey granular
white fibrous

SIZE
RANGE

SIZE
RANGE 10µm to 5mm

ANALYSIS
DESCRIPTION
MORPHOLOGY

ANALYSIS
DESCRIPTION Large bundles of chrysotile
i.e. were found in all four
MORPHOLOGY preps

ASBESTOS
PRESENT
TYPE & PERCENT

ASBESTOS
PRESENT Chrysotile 19%
TYPE & PERCENT Crocidolite 1%

OTHER
FIBROUS
MATERIALS
PRESENT

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose <1%

NON-FIBROUS
MATERIALS
PRESENT

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Resin, Opaques

NO. OF
FIELDS VIEWED

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT 1. 2.
ASBESTOS
PER SLIDE 3. 4.

PERCENT 1.Chry.12% 2.Chry.15%
ASBESTOS 1.Croc.2% 2.Croc. 1%
PER SLIDE 3.Chry.20% 4.Chry.30%
Croc.3% Croc.<1%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622

SAMPLE ID: 025

SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra

SIZE: Coarse >0.5mm.

FRACTION

WEIGHT 18.8g

FRACTION

WEIGHT 271.8g

SAMPLE
APPEARANCE

Grey & White
granular

SAMPLE
APPEARANCE

Grey & White fibrous

SIZE

RANGE

5µm to 50µm

SIZE

RANGE

50µm to 200µm

ANALYSIS
DESCRIPTION

MORPHOLOGY

Chrysotile was found
in all four preps.
Amosite in 2 of the
4 preps and croc-
idolite in 3 of the
4 preps. All were
found in small bundles

ANALYSIS
DESCRIPTION

MORPHOLOGY

Large bundles of chrysotile
and crocidolite were found
in all four preps

ASBESTOS
PRESENT

TYPE & PERCENT

Amosite <<1%
Chrysotile 2%
Crocidolite <1%

ASBESTOS
PRESENT

TYPE & PERCENT

Chrysotile 5%
Crocidolite 6%

OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose 1%

OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose <1%

NON-FIBROUS
MATERIALS
PRESENT

Granular minerals
Organics
Opagues

NON-FIBROUS
MATERIALS
PRESENT

Granular minerals
Organics
Opagues
Mica (t)

NO. OF
FIELDS VIEWED

100 fields per prep

NO. OF

FIELDS VIEWED

100 fields per prep

PERCENT
ASBESTOS
PER SLIDE

1 Chry. 3% 2 Chry. 1%
1 Croc. <1% 2 Croc. <1%
Amo. <1%
3 Chry. <1% 4 Chry. 1+%
Amo. <1% Croc. <1%

PERCENT
ASBESTOS
PER SLIDE

1 Chry. 7% 2 Chry. 4%
1 Croc. 6% 2 Croc. 6%
3 Chry. 3% 4 Chry. 5%
Croc. 6% Croc. 5%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 026
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT N/A

FRACTION
WEIGHT 308.1g

SAMPLE No fine fraction was
APPEARANCE present in this sample

SAMPLE Grey granular
APPEARANCE Black fibrous
White fibrous

SIZE
RANGE

SIZE
RANGE 10µm to 300µm

ANALYSIS
DESCRIPTION
MORPHOLOGY

ANALYSIS
DESCRIPTION Large bundles of
DESCRIPTION chrysotile were found
i.e. in all four preps.
MORPHOLOGY

ASBESTOS
PRESENT
TYPE & PERCENT

ASBESTOS
PRESENT Crocidolite <1%
TYPE & PERCENT Chrysotile 4%

OTHER
FIBROUS
MATERIALS
PRESENT

OTHER
FIBROUS
MATERIALS
PRESENT Glasswool 15%
Cellulose 2%
Fiberglass <1%

NON-FIBROUS
MATERIALS
PRESENT

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Resin
Opagues
Organics (tar) (t)

NO. OF
FIELDS VIEWED

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT 1. 2.
ASBESTOS
PER SLIDE 3. 4.

PERCENT 1. Croc.<1% 2. Croc. 2%
ASBESTOS 1. Chry.2% 2. Chry.4%
PER SLIDE 3. Chry.2% 4. Chry.8%
Croc.<1% Croc. <1%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 027
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 168.9g

FRACTION
WEIGHT 134.4g

SAMPLE
APPEARANCE Grey Fibrous &
Brown Granular

SAMPLE
APPEARANCE White Fibrous

SIZE
RANGE 10-100 μ m

SIZE
RANGE 10-80 μ m

ANALYSIS
DESCRIPTION Chrysotile was found
in all of the four
preps and crocidolite
MORPHOLOGY was found in one of
the preps

ANALYSIS
DESCRIPTION Chrysotile was found in
all of the four preps
and crocidolite was found
MORPHOLOGY in one of the preps

ASBESTOS
PRESENT Chrysotile 6%
TYPE & PERCENT Crocidolite <<1%

ASBESTOS
PRESENT Chrysotile 4%
TYPE & PERCENT Crocidolite <<1%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 12%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 5%

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opagues, Organics
Mica (t)

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Organics
Opagues

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE 1. Chry. 5% 2. Chry. 3%
Croc. <1%
3. Chry. 7% 4. Chry. 8%

PERCENT
ASBESTOS
PER SLIDE 1. Chry. 4% 2. Chry. 5%
Croc. <1%
3. Chry. 4% 4. Chry. 4%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 028
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT N/A

FRACTION
WEIGHT 126.7g

SAMPLE
APPEARANCE No fine fraction
was present in
this sample

SAMPLE
APPEARANCE Grey massive
Granular with white
fibers

SIZE
RANGE

SIZE
RANGE 50µm to 3 mm

ANALYSIS
DESCRIPTION
i.e.
MORPHOLOGY

ANALYSIS
DESCRIPTION Large bundles of
i.e. chrysotile were found
MORPHOLOGY in all four preps

ASBESTOS
PRESENT
TYPE & PERCENT

ASBESTOS
PRESENT
TYPE & PERCENT Chrysotile 12%

OTHER
FIBROUS
MATERIALS
PRESENT

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose <1%
Synthetics <1%

NON-FIBROUS
MATERIALS
PRESENT

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Resin
Opagues

NO. OF
FIELDS VIEWED

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT 1. 2.
ASBESTOS
PER SLIDE 3. 4.

PERCENT 1.Chry.5% 2. Chry.18%
ASBESTOS
PER SLIDE 3.Chry.15% 4. Chry.10%

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622
SAMPLE ID: 029
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 105.3g

FRACTION
WEIGHT 261.6g

SAMPLE
APPEARANCE Brown granular

SAMPLE
APPEARANCE Grey granular &
Yellow fibrous

SIZE
RANGE 10 - 150µm

SIZE
RANGE 10 - 250µm

ANALYSIS
DESCRIPTION Chrysotile was found
in all four of the
preps and crocidolite
MORPHOLOGY was found in two of
the preps

ANALYSIS
DESCRIPTION Chrysotile was found
in all four preps
MORPHOLOGY i.e.

ASBESTOS
PRESENT
TYPE & PERCENT Chrysotile 2%
Crocidolite <1%

ASBESTOS
PRESENT
TYPE & PERCENT Chrysotile 12%

OTHER
FIBROUS
MATERIALS
PRESENT Glasswool 40%
Cellulose <1%

OTHER
FIBROUS
MATERIALS
PRESENT Cellulose 1%
Glasswool 2%
Synthetics <1%

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opagues
Organics

NON-FIBROUS
MATERIALS
PRESENT Granular minerals
Opagues
Organics

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE 1. Chry. 1% 2. Chry. 2%
Croc. <1%
3. Chry. 2% 4. Chry. 2%
Croc. <1% Croc. 1%

PERCENT
ASBESTOS
PER SLIDE 1. Chry. 10% 2. Chry. 15%
3. Chry. 5% 4. Chry. 20%

N.D. = NONE DETECTED

t = TRACE

SAMPLED SAM SUNG ONLY, ROADWAY

LABORATORY NO.: 17622

SAMPLE ID: 030

SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra

SIZE: Coarse >0.5mm.

FRACTION

WEIGHT

207g

FRACTION

WEIGHT

694.1g

SAMPLE
APPEARANCE

Grey granular

SAMPLE
APPEARANCE

Grey granular

SIZE

RANGE

5 - 100µm

SIZE

RANGE

5 - 200 µm

ANALYSIS
DESCRIPTION
i.e.

Small bundles of
crocidolite were
found in one prep

MORPHOLOGY

ANALYSIS
DESCRIPTION
i.e.

No asbestiform minerals
were detected in any of
the preps

MORPHOLOGY

ASBESTOS
PRESENT

TYPE & PERCENT

Crocidolite <<1%

ASBESTOS
PRESENT

TYPE & PERCENT

N.D.

OTHER
FIBROUS
MATERIALS
PRESENT

Synthetics <1%
Glasswool <1%
Cellulose 1%

OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose <1%

NON-FIBROUS
MATERIALS
PRESENT

Granular minerals
Resin
Opagues

NON-FIBROUS
MATERIALS
PRESENT

Granular minerals
Resin
Opagues

NO. OF

FIELDS VIEWED 100 fields per prep

NO. OF

FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE

1. N.D. 2. N.D.
3. Cro. <<1% 4. N.D.

PERCENT
ASBESTOS
PER SLIDE

1. N.D. 2. N.D.
3. N.D. 4. N.D.

N.D. = NONE DETECTED

t = TRACE

SAMPLED S. TUNG ROADWAY

LABORATORY NO.: 17622
SAMPLE ID: 031
SIZE: Fine <0.5mm.

CLIENT: CC Johnson & Malhotra
SIZE: Coarse >0.5mm.

FRACTION
WEIGHT 184g

FRACTION
WEIGHT 665.3g

SAMPLE
APPEARANCE Grey granular

SAMPLE
APPEARANCE Grey granular

SIZE
RANGE 10 to 60 μ m

SIZE
RANGE 5 to 20 μ m

ANALYSIS
DESCRIPTION
i.e.
MORPHOLOGY
Chrysotile was found
in all four preps
and amosite in 3
preps and crocidolite
in one prep

ANALYSIS
DESCRIPTION
i.e.
MORPHOLOGY
A small bundle of
crocidolite was found
in one of the preps

ASBESTOS
PRESENT
TYPE & PERCENT
Chrysotile 1+
Amosite <1%
Crocidolite <<1%

ASBESTOS
PRESENT
TYPE & PERCENT
Crocidolite <<1%

OTHER
FIBROUS
MATERIALS
PRESENT
Glasswool 2%
Cellulose 3%
Synthetics 1%

OTHER
FIBROUS
MATERIALS
PRESENT
Cellulose 2%
Synthetics <1%

NON-FIBROUS
MATERIALS
PRESENT
Granular minerals
Organics
Opagues

NON-FIBROUS
MATERIALS
PRESENT
Granular minerals
Opagues
Organics

NO. OF
FIELDS VIEWED 100 fields per prep

NO. OF
FIELDS VIEWED 100 fields per prep

PERCENT
ASBESTOS
PER SLIDE
1. Chry. 1% 2. Chry. 1%
Amo. <1% Amo. <1%
3. Chry. 2% 4. Chry. 2%
Amo. <1%
Croc. <1%

PERCENT
ASBESTOS
PER SLIDE
1. N.D. 2. N.D.
3. Croc. <1% 4. N.D.

N.D. = NONE DETECTED

t = TRACE

SAMPLED

SAM JUNG ONLY. ROADWAY

LABORATORY NO.: 17622

CLIENT: CC Johnson & Malhotra

SAMPLE ID: 032

SIZE: Fine <0.5mm.

SIZE: Coarse >0.5mm.

FRACTION

WEIGHT

472.6g

FRACTION

WEIGHT

420g

SAMPLE
APPEARANCE

Grey granular

SAMPLE
APPEARANCE

Grey granular

SIZE

RANGE

5 - 120 µm

SIZE

RANGE

5 - 200 µm

ANALYSIS
DESCRIPTION

i.e.

MORPHOLOGY

Small bundles of
Chrysotile were
found in 2 of the
prepsANALYSIS
DESCRIPTION

i.e.

MORPHOLOGY

No asbestiform minerals
were found in any of
the preps

ASBESTOS

PRESENT

TYPE & PERCENT

Chrysotile <1%

ASBESTOS

PRESENT

TYPE & PERCENT

None detected

OTHER
FIBROUS
MATERIALS
PRESENTCellulose <1%
Glasswool <1%OTHER
FIBROUS
MATERIALS
PRESENT

Cellulose 1+%

NON-FIBROUS
MATERIALS
PRESENTGranular minerals
Resin
OpaquesNON-FIBROUS
MATERIALS
PRESENTGranular minerals
Resin
Opaques

NO. OF

FIELDS VIEWED

100 fields per prep

NO. OF

FIELDS VIEWED

100 fields per prep

PERCENT
ASBESTOS
PER SLIDE

1. Chry. 1% 2. N.D.

3. Chry. <1% 4. N.D.

PERCENT
ASBESTOS
PER SLIDE

1. N.D. 2. N.D.

3. N.D. 4. N.D.

N.D. = NONE DETECTED

t = TRACE

LABORATORY NO.: 17622

SAMPLE ID: 033

SIZE: Fine <0.5mm.

CC Johnson & Malhotra

SIZE: Coarse >0.5mm.

FRACTION

WEIGHT

214.6g

FRACTION

WEIGHT

543.5g

SAMPLE

APPEARANCE

Grey granular with
with brown organic
fibers

SAMPLE

APPEARANCE

Grey massive
Granular

SIZE

RANGE

5µm to 30µm

SIZE

RANGE

10µm to 40µm

ANALYSIS

DESCRIPTION

Very small bundles
chrysotile fibers
were found in all
four preps

MORPHOLOGY

ANALYSIS

DESCRIPTION

i.e.

MORPHOLOGY

Very small bundles of
chrysotile fibers were
found in all four preps.
Crocidolite was found in
one prep

ASBESTOS

PRESENT

TYPE & PERCENT

Chrysotile <1%

ASBESTOS

PRESENT

TYPE & PERCENT

Chrysotile <1%
Crocidolite <<1%

OTHER

FIBROUS

MATERIALS

PRESENT

Cellulose 2%

OTHER

FIBROUS

MATERIALS

PRESENT

Cellulose 2%
Glasswool <1%

NON-FIBROUS

MATERIALS

PRESENT

Granular minerals
Opagues
Organics
Mica

NON-FIBROUS

MATERIALS

PRESENT

Granular minerals
Opagues
Organics
Mica (t)

NO. OF

FIELDS VIEWED

100 fields per prep

NO. OF

FIELDS VIEWED

100 fields per prep

PERCENT

ASBESTOS

PER SLIDE

1. Chry<1% 2. Chry.<1%
3. Chry<1% 4. Chry.<1%

PERCENT

ASBESTOS

PER SLIDE

1. Chry<1% 2. Chry.<1%
Croc.<1%
3. Chry<1% 4. Chry.<1%

N.D. = NONE DETECTED

t = TRACE